

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/780,658	02/19/2004	James K. Cavers	01311.001005.1 2181				
26875	7590 03/23/2006 EXAMINER						
WOOD, HE	RRON & EVANS, LL	LAUTURE, JOSEPH J					
441 VINE ST	- +	ART UNIT PAPER N					
CINCINNAT	I, OH 45202	2819					

DATE MAILED: 03/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)				
		10/780,658		CAVERS ET AL.				
Office Action	n Summary	Examiner		Art Unit				
		Joseph Lauture		2819				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
WHICHEVER IS LONGE - Extensions of time may be availater SIX (6) MONTHS from the first of the f	TORY PERIOD FOR REPLY R, FROM THE MAILING DA ble under the provisions of 37 CFR 1.13 mailing date of this communication. I above, the maximum statutory period w extended period for reply will, by statute, later than three months after the mailing See 37 CFR 1.704(b).	ATE OF THIS COM 6(a). In no event, however ill apply and will expire SIX cause the application to be	IMUNICATION. r, may a reply be time ((6) MONTHS from the	ely filed ne mailing date of this co (35 U.S.C. § 133).				
Status								
1) Responsive to com	munication(s) filed on 13 Fe	ebruary 2006.						
2a)☐ This action is FINA								
3) Since this application	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is							
closed in accordan	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠ Claim(s) 36-38 is/a	re pending in the application	1.			,			
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>36-38</u> is/a	re rejected.	•						
7) Claim(s) is/a								
8) Claim(s) are	subject to restriction and/or	election requireme	ent.					
Application Papers					•			
9) The specification is	objected to by the Examiner	•						
10)⊠ The drawing(s) filed	on <u>19 February 2004</u> is/are	: a) accepted or	r b)□ objected	to by the Examin	ier.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 1	19							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
<u>—</u>	1. Certified copies of the priority documents have been received.							
<u> </u>								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
See the attached det	alled Office action for a list (or the certified copie	es not received					
Attachmont(c)								
Attachment(s) 1) Notice of References Cited (P	TO-892)	4) 🗍 Inte	erview Summary (F	PTO-413)				
2) D Notice of Draftsperson's Pater	nt Drawing Review (PTO-948)	Pap	per No(s)/Mail Date	э	450)			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:								

Application/Control Number: 10/780,658

Art Unit: 2819

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 36-38 are rejected under 35 U.S.C 102(b) as being anticipated by Cavers (US 5,489,875).

Regarding claim 36, Cavers teaches a linearizer (see fig. 4) comprising an adaptation controller (CT3, CT4) with M monitor (input) signals (106, 121) thereto and M control settings outputs therefrom (102, 103 107, 108, 122, 123, 127, 128 and see col. 8 lines 2-9), wherein the adaptation controller first determines M uncorrelated adjustment settings including delay, phase and gain dependent on the M monitor (input) signals and then adjusting the M control setting using the M uncorrelated adjustment settings including delay, gain and phase parameters to reduce distortion and enhance signal intelligibility. Furthermore, according to (see col. 7 lines 60-64), complex gain adjuster can be adjusted independently of each other. Uncorrelated adjustment setting reads on determining

Art Unit: 2819

deficiencies with an input signal and independently adjusting the input signals as such to correct phase, delay and gain distortion.

Regarding claim 37, Cavers teaches a linearizer amplifier comprising a signal cancellation circuit in (see col. 7 lines 35-36, col. 8 line 21), a distortion cancellation circuit in (see col. 7 line 37, col. 8 line 22); wherein the signal and distortion cancellation circuits comprises an adaptation controller (CT3, CT4) with M monitor (input) signals (106, 121) thereto and M control settings outputs therefrom (102, 103 107, 108, 122, 123, 127, 128 and see col. 8 lines 2-9), wherein the adaptation controller first determines M uncorrelated adjustment settings including delay, phase and gain dependent on the M monitor (input) signals and then adjusting the M control setting using the M uncorrelated adjustment settings including delay, gain and phase parameters to reduce distortion and enhance signal intelligibility. Furthermore, according to (see col. 7 lines 60-64), complex gain adjuster can be adjusted independently of each other. Uncorrelated adjustment setting reads on determining deficiencies with an input signal and independently adjusting the input signals as such to correct phase, delay and gain distortion.

Application/Control Number: 10/780,658

Art Unit: 2819

Regarding claim 38, Cavers teaches a linearizer in (see fig. 4) comprising an adaptation controller (CT3, CT4) with M monitor (input) signals (106, 121) thereto and M control settings outputs therefrom (102, 103 107, 108, 122, 123, 127, 128 and see col. 8 lines 2-9), wherein the adaptation controller first determines M uncorrelated adjustment settings including delay, phase and gain dependent on the M monitor (input) signals and then adjusting the M control setting using the M uncorrelated adjustment settings including delay, gain and phase parameters to reduce distortion and enhance signal intelligibility. Furthermore, according to (see col. 7 lines 60-64), complex gain adjuster can be adjusted independently of each other. Uncorrelated adjustment setting reads on determining deficiencies with an input signal and independently adjusting the input signals as such to correct phase, delay and gain distortion.

Page 4

Application/Control Number: 10/780,658

Art Unit: 2819

CONTACT INFORMATION

Page 5

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Joseph Lauture, whose telephone number is

(571) 272-1805. The examiner can normally be reached Monday to Friday

between 9:30 am and 6:00 PM

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Rexford Barnie can be reached at (571) 272-7492. The

fax number for the organization to which this application is assigned is (571) 273-

8300.

Information regarding the status of an application may be obtained from

the Patent Application Information Retrieval (PAIR) system. Status information

for published applications may be obtained from either Private PAIR or Public

PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll

free).

Joseph Lauture Art Unit: 2819

Date: 03/15/2006

SUPERVISORY PRIMARYEYAMINER